

GUIDE TO BETTER SERVICE

CANADIAN EDITION



THE GARTH COMPANY

50 Craig Street, West

MONTREAL

THE LUNKENHEIMER CO.
"QUALITY"

CINCINNATI, OHIO, U. S. A.
NEW YORK CHICAGO BOSTON LONDON
EXPORT DEPT 129-135 LAFAYETTE ST., NEW YORK



LUNKENHEIMER STANDARD VALVES

SMALL VALVES, SCREW ENDS



Fig. 1021—Globe
Fig. 1022—Angle
"Fer-renewo"—Union Bonnet
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
Sizes Made, 1/4 to 2 inches
Sizes Registered,
3/4 to 2 inches
Registration No. 40136-5234

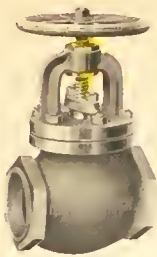


Fig. 1021—Globe
Fig. 1022—Angle
"Fer-renewo"
Outside Screw and Yoke
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
1/2 to 4 inches
Registration No.
40137-5234 Globe
Registration No.
40138-5234—Angle



Fig. 898—Horizontal
Fig. 899—Angle
"Fer-renewo"
Lift Check
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
1/4 to 2 inches



Fig. 600—Gate
"Clip"
100 Pounds—450° F.
Rising Bronze Stem
1/2 to 3 inches



Fig. 427—Gate
Bronze—"Double Disc"
150 Pounds—500° F.
Rising Bronze Stem
†Sizes Made, 1/4 to 3 inches
Sizes Registered,
3/4 to 2 1/2 inches
Registration No. 40150-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED 125 POUNDS WORKING STEAM PRESSURE



Fig. 1120—Globe
Fig. 1121—Angle
125 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. 40137-5234—Globe
Registration No. 40138-5234—Angle



Fig. 228—Swing Check
125 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. 40149-5234



Fig. 1427—Gate
125 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 2 to 6 inches
*Sizes Registered, 2 and 2 1/2 inches
Registration No. 40438-5234



Fig. 1429—Gate
125 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†2 to 6 inches
Registration No. 40439-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED 125 POUNDS WORKING STEAM PRESSURE

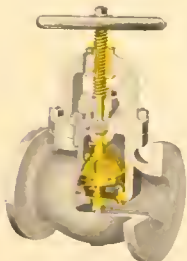


Fig. 1123—Globe
Fig. 1124—Angle
125 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 12 inches
Registration No. 40137-5234—Globe
Registration No. 40138-5234—Angle



Fig. 933—Swing Check
125 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. 40149-5234



Fig. 1428—Gate
125 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
Sizes Made, 2 to 12 inches
*Sizes Registered, 2 and 2 1/2 inches
Registration No. 40438-5234



Fig. 1430—Gate
125 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
2 to 24 inches
Registration No. 40439-5234

STANDARD FACE TO FACE DIMENSIONS

* Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.

† Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4 1/2" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER HEAVY VALVES

SMALL VALVES, SCREW ENDS, BRONZE

200 POUNDS WORKING STEAM PRESSURE



Fig. 73—Globe
Fig. 72—Angle
Bronze—"Renewo"
200 Pounds—500° F.
Renewable Nickel Seat
and Disc
†Sizes Made, 1/4 to 3 in.
Sizes Registered,
*1/4 to 2 1/2 inches
Registration No.
‡0128-5234—Globe
Registration No.
‡0129-5234—Angle



Fig. 554—Swing Check
Bronze—"Regrinding"
200 Pounds—500° F.
Renewable Bronze Disc
†1/4 to 3 inches
Registration No.
‡0147-5234



Fig. 407—Globe
Fig. 408—Angle
Bronze—"Regrinding"
200 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, 3/8 to 4 in.
Sizes Registered,
*1/8 to 2 1/2 inches
Registration No.
‡0124-5234—Globe
Registration No.
‡0125-5234—Angle



Fig. 414—Horizontal
Fig. 415—Angle
Bronze—"Regrinding"
Lift Check
200 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, 3/8 to 4 in.
Sizes Registered,
*3/8 to 3 inches
Registration No.
‡0143-5234—Horizontal
Registration No.
‡0144-5234—Angle



Fig. 768—Gate
Bronze—"Wedge Disc"
200 Pounds—500° F.
Inside Screw
Stationary Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†Sizes Made, 1/4 to 3 in.
Sizes Registered,
*3/8 to 2 1/2 inches
Registration No.
‡0151-5234



Fig. 831—Gate
Bronze—"Wedge Disc"
200 Pounds—500° F.
Outside Screw and Yoke
Rising Stem
Renewable Bronze Seats
and Disc 1 inch and
larger
†3/4 to 3 inches
Registration No.
‡0152-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED

175 POUNDS WORKING STEAM PRESSURE



Fig. 1126—Globe
175 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. ‡0139-5234

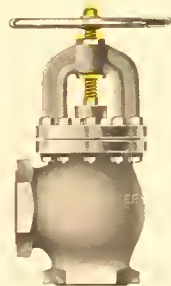


Fig. 1127—Angle
175 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. ‡0140-5234



Fig. 602—Gate
175 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 2 to 6 inches
*Sizes Registered, 2 and 2 1/2 inches
Registration No. ‡0155-5234



Fig. 642—Gate
175 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†2 to 6 inches
Registration No. ‡0156-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED

175 POUNDS WORKING STEAM PRESSURE

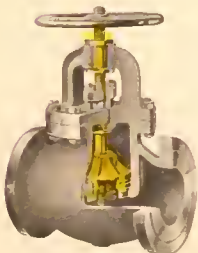


Fig. 1129—Globe
175 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. ‡0139-5234

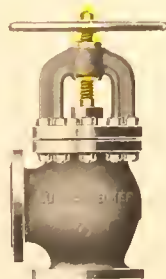


Fig. 1130—Angle
175 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. ‡0140-5234



Fig. 603—Gate
175 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
Sizes Made, 2 to 16 inches
*Sizes Registered, 2 and 2 1/2 inches
Registration No. ‡0155-5234



Fig. 643—Gate
175 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
2 to 16 inches
Registration No. ‡0156-5234

Diameters and thickness of Flanges and Drilling Templates on above 175 Pound Flanged Valves are the same dimensions as the 250 Pound Extra Heavy American Standard

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.

†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4 1/2" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER EXTRA HEAVY VALVES

SMALL VALVES, SCREW ENDS, BRONZE

300 POUNDS WORKING STEAM PRESSURE



Fig. 16—Globe
Fig. 17—Angle
Bronze—"Renewo"
300 Pounds—500° F.
Renewable Nickel Seat
and Disc
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¼ to 2½ inches
Registration No.
‡0130-5234—Globe
Registration No.
‡0131-5234—Angle



Fig. 624—Swing Check
Bronze—"Regrinding"
300 Pounds—500° F.
Renewable Bronze Disc
†¼ to 3 inches
Registration No.
‡0148-5234



Fig. 409—Globe
Fig. 557—Angle
Bronze—"Regrinding"
300 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ¼ to 4 in.
Sizes Registered,
*¼ to 2½ inches
Registration No.
‡0126-5234—Globe
Registration No.
‡0127-5234—Angle



Fig. 413—Horizontal
Fig. 621—Angle
Bronze—"Regrinding"
Lift Check
300 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ¼ to 4 in.
Sizes Registered,
¼ to 3 inches
Registration No.
‡0145-5234—Horizontal
Registration No.
‡0146-5234—Angle



Fig. 771—Gate
Bronze—"Wedge Disc"
300 Pounds—500° F.
Inside Screw
Stationary Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¾ to 2½ inches
Registration No.
‡0153-5234



Fig. 834—Gate
Bronze—"Wedge Disc"
300 Pounds—500° F.
Outside Screw and Yoke
Rising Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†1 to 3 inches
Registration No.
‡0154-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED

250 POUNDS WORKING STEAM PRESSURE



Fig. 881—Globe
Fig. 882—Angle
250 Pounds—450° F.
Renewable Nickel Seat and Disc
†2 to 4 inches
Registration No. ‡0141-5234—Globe
Registration No. ‡0142-5234—Angle



Fig. 324—Swing Check
250 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 4 inches
Registration No. ‡0436-5234



Fig. 1433—Gate
250 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 1½ to 4 inches
*Sizes Registered, 1½ to 2½ inches
Registration No. ‡0157-5234



Fig. 1435—Gate
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†1½ to 4 inches
Registration No. ‡0158-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED

250 POUNDS WORKING STEAM PRESSURE

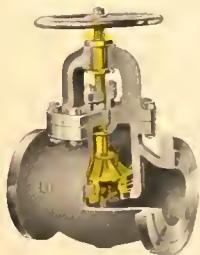


Fig. 884—Globe. 2 to 8 in.
Fig. 885—Angle. 2 to 8 in.
Fig. 326—Globe, With
Interior By-pass.
5 to 12 inches.
Fig. 359—Angle, With
Interior By-pass.
5 to 12 inches.
250 Pounds—450° F.
Renewable Bronze Seat
and Disc.
Registration No.
‡0141-5234—Globe
Registration No.
‡0142-5234—Angle



Fig. 323—Swing Check
250 Pounds—450° F.
Renewable Bronze Seat
and Disc
2 to 8 inches
Registration No. ‡0436-5234



Fig. 1434—Gate
250 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats
and Disc. Sizes Made, 1½
to 12 inches. Sizes Registered,
*1½ to 2½ inches.
Registration No. ‡0157-5234

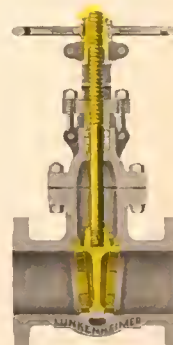


Fig. 1436—Gate
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats
and Disc. 1½ to 18 inches
Registration No. ‡0158-5234



Fig. 1438—Gate With By-pass
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats
and Disc. 6 to 18 inches
Registration No. ‡0158-5234

STANDARD FACE TO FACE DIMENSIONS

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.
†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4½" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER STEEL VALVES

SMALL VALVES, SCREW ENDS, STEEL, MONEL MOUNTED

400 POUNDS WORKING STEAM PRESSURE



Fig. 1451—Globe
Fig. 1452—Angle
"Steel"

400 Pounds—750° F.
Bonnet, Union Bonnet Ring Monel,
Stem Rolled Monel, Renewable
Seat and Disc Forged Monel
Sizes Made, $\frac{1}{4}$ to 2 inches
Sizes Registered, $\frac{1}{2}$ to 2 inches
Registration No. 40432-5234 Globe
Registration No. 40433-5234 Angle



Fig. 1514
All Monel
400 Pounds—750° F.
Screw Cap
 $\frac{1}{4}$ to $1\frac{3}{4}$ inches.



Fig. 1598
Steel Monel Mounted
400 Pounds—750° F.
Bolted Cap
 $1\frac{1}{2}$ and 2 inches.



Fig. 1586
Monel Gate Valves
400 Pounds—750° F.
Union Bonnet
Inside Screw
 $\frac{1}{4}$ to 1 inches.



Fig. 1515
Monel Gate Valves
400 Pounds—750° F.
Outside Screw
and Yoke
 $\frac{3}{4}$ to 2 inches

NON-RETURN VALVES, STEEL, MONEL MOUNTED

300 POUNDS WORKING STEAM
PRESSURE



Fig. 1409—Globe—"Steel"
300 Pounds—750° F.
Renewable Seat and Disc, also Stem are made of Monel
3 to 10 inches.
Registration No. 40161-5234

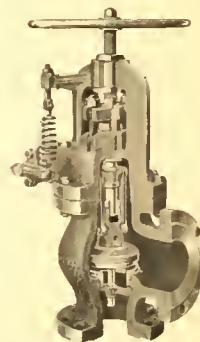


Fig. 1410—Angle—"Steel"
300 Pounds—750° F.
Renewable Seat and Disc, also Stem are made of Monel
3 to 10 inches
Registration No. 40162-5234

"Iron" Bronze Mounted Non-Return Valves
are illustrated on page nine

 LUNKENHEIMER NON-RETURN VALVES HAVE NO DASHPOTS AND WILL NOT STICK, CHATTER OR SPIN.
WILL INSTANTLY CLOSE AUTOMATICALLY WHEN NECESSARY 

LARGE VALVES, FLANGE ENDS, STEEL, MONEL MOUNTED

300 POUNDS WORKING STEAM PRESSURE



Fig. 606—Globe. 2 to 8 inches.
Registration No. 40434-5234

Fig. 607—Angle. 2 to 8 inches.
Registration No. 40435-5234

Fig. 705—Globe. With Interior
By-pass. 5 to 12 inches.

Fig. 706—Angle. With Interior
By-pass. 5 to 12 inches.

"Steel"—300 Pounds—750° F.
Renewable Seat and Disc, also
Stem are made of Monel



"Steel"—Swing Check
Fig. 1314—Bronze Mounted—500° F.
Fig. 1397—Monel Mounted—750° F.
300 Pounds
Renewable Seat and Disc
Sizes Made, $1\frac{1}{2}$ to 12 inches
Sizes Registered, 2 to 8 inches
Registration No. 40437-5234



Fig. 1425—Gate
"Steel"
300 Pounds—750° F.
Outside Screw and Yoke
Rising Monel Stem
Renewable Monel Seats and Disc
Sizes Made, $1\frac{1}{2}$ to 16 inches
Sizes Registered, 2 to 16 inches
Registration No. 40159-5234

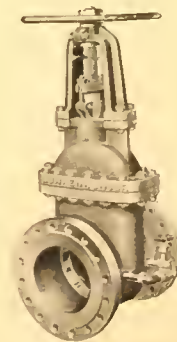


Fig. 1426—Gate With By-pass
"Steel"
300 Pounds—750° F.
Outside Screw and Yoke
Rising Monel Stem
Renewable Monel Seats and Disc
6 to 18 inches
Registration No. 40159-5234

STANDARD FACE TO FACE DIMENSIONS

LUNKENHEIMER VALVES

WITH MONEL SEATS AND DISCS

THROTTLING TYPE.

RESTRICTED SEAT OPENING

TEE HANDLE



"Fer-renewo"
Throttling Type
Fig. 1536—Globe
Fig. 1564—Angle
150 Pounds—450° F.
Sizes Made, $\frac{1}{4}$ to 2 inches
Sizes Registered, $\frac{3}{4}$ to 2 inches
Registration No. 40136-5234



Bronze—"Renewo"
Throttling Type
Fig. 1521—Globe
Fig. 1561—Angle
200 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. 40128-5234—Globe
Registration No. 40129-5234—Angle



Extra Heavy
Bronze—"Renewo"
Throttling Type
Fig. 1522—Globe
Fig. 1562—Angle
300 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. 40130-5234—Globe
Registration No. 40131-5234—Angle

LUNKENHEIMER VALVES

WITH MONEL SEATS AND DISCS

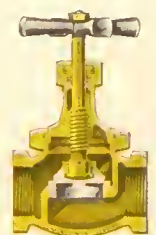
FULL-WAY TYPE.

FULL AREA SEAT OPENING

CROSS-BAR HANDLE



"Fer-renewo"
Full-Way Type
Fig. 1525—Globe
Fig. 1563—Angle
150 Pounds—450° F.
Sizes Made, $\frac{1}{4}$ to 2 inches
Sizes Registered, $\frac{3}{4}$ to 2 inches
Registration No. 40136-5234



Bronze—"Renewo"
Full-Way Type
Fig. 1523—Globe
Fig. 1559—Angle
200 Pounds—500° F.
†Sizes Made, $\frac{1}{4}$ to 3 inches
*Sizes Registered, $\frac{1}{4}$ to 2 $\frac{1}{2}$ inches
Registration No. 40128-5234—Globe
Registration No. 40129-5234—Angle



Extra Heavy
Bronze—"Renewo"
Full-Way Type
Fig. 1524—Globe
Fig. 1560—Angle
300 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. 40130-5234—Globe
Registration No. 40131-5234—Angle

LUNKENHEIMER HIGH DUTY VALVES

FOR HYDRAULIC, AIR, GAS, AND OIL SERVICE

2000 POUNDS WORKING PRESSURE IF SHOCK IS LIKELY TO OCCUR. 4000 POUNDS NON-SHOCK PRESSURE



Fig. 720—Globe
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 721—Angle
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 815—Horizontal Check
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 816—Angle Check
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.

†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4 $\frac{1}{2}$ " and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER "SA" VALVES

"SULPHURIC ACID" SERVICE



Fig. 1398—Globe
1/2 to 2 inches



Fig. 1399—Globe
1 1/2 to 3 inches

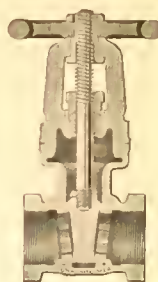


Fig. 1411—Gate
3/4 to 2 inches



Fig. 1406—Gate
2 to 8 inches

THESE VALVES ARE REGULARLY MADE FOR 50 POUNDS WORKING PRESSURE. VALVES FOR 200 POUNDS WORKING PRESSURE ARE PROCURABLE ON SPECIAL ORDER

LUNKENHEIMER NEEDLE VALVES

BRONZE OR STEEL STEM. VALVES WITH STEEL STEM HAVE SMALLER SEAT OPENING, PROVIDING FINER REGULATION



Fig. 906—Globe
200 Pounds
1/8 to 1/2 inch



Fig. 907—Angle
200 Pounds
1/8 to 1/2 inch



Fig. 909—Globe
With Union
200 Pounds
1/8 to 1/2 inch



Fig. 910—Angle
With Union
200 Pounds
1/8 to 1/2 inch

FOR 3/4 AND 1 INCH SIZES REFER TO THE "GLAND TYPE" ILLUSTRATED BELOW.

LUNKENHEIMER "GLAND TYPE" NEEDLE VALVES

BRONZE STEM ONLY

ALL 1-INCH NEEDLE VALVES HAVE UNION BONNET CONSTRUCTION



Fig. 1205—Globe
200 Pounds
1/4 to 1 inch



Fig. 1206—Angle
200 Pounds
1/4 to 1 inch



Fig. 1208—Globe
With Union
200 Pounds
1/4 to 1 inch



Fig. 1209—Angle
With Union
200 Pounds
1/4 to 1 inch



Fig. 1566—Angle
Fig. 1565—Globe
Fig. 1568—Angle with Union
Fig. 1567—Globe with Union
200 Pounds
1/4 and 3/8 inch

The 1/4, 3/8, 1/2 and 3/4-in. sizes have been approved by the Underwriters' Laboratories for control of hazardous liquids. The Underwriters' Laboratories prescribe 50 pounds per square inch as the maximum pressure for hazardous liquid equipment.

WATER COLUMN



Fig. 919
"Vigilant"

250 Pounds
12 to 24 inches
center to
center dimensions for water
gauge connections.

The No. 5-6 Column has tapped openings for steam connection at top and back, therefore may be used on either Water Tube or Horizontal Tubular Boilers, steam connection being made at either point, plugging unused opening with pipe plug.

Chain Operated Type



Fig. 1334—Non-Automatic
Fig. 1335—Automatic

300 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0172-5234

WATER GAUGES

Hand Wheel Type



Fig. 460—Non-Automatic
200 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0171-5234

Fig. 1332—Non-Automatic
Fig. 1333—Automatic
300 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0172-5234

APPROVED FUSIBLE PLUGS



Fig. 1326
"Regular Standard"
Large Core
Inside Pattern
 $\frac{1}{8}$ to $1\frac{1}{2}$ inches
Reg. No. ϕ 0441-5234



Fig. 1327
"Regular Standard"
Large Core
Outside Pattern
 $\frac{1}{2}$ to $1\frac{1}{2}$ inches
Reg. No. ϕ 0441-5234

BRONZE UNIONS



Fig. 303—200 Pounds
Fig. 302—300 Pounds
 $\frac{1}{8}$ to 2 inches

GAUGE COCKS

"Renewo"—Weighted Type

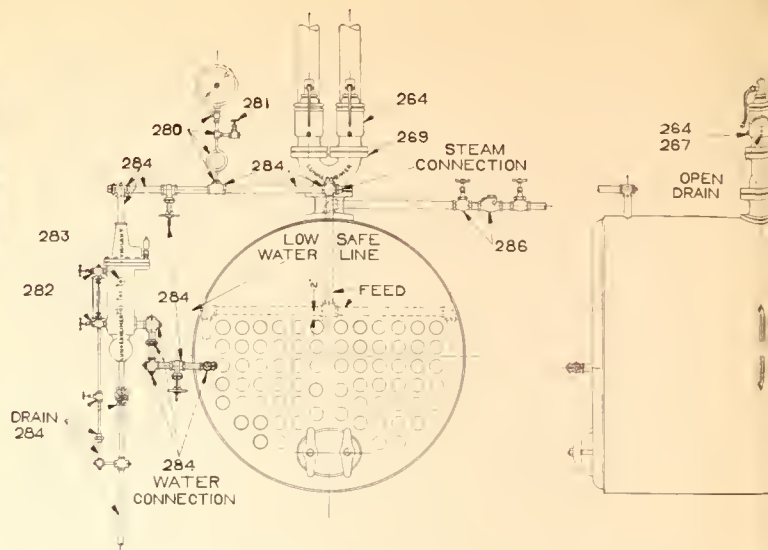


Fig. 1264
Renewable Monel Seat and Disc
250 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0176-5234

"Regrinding"—Plain Type



Fig. 1176 Iron Wheel
Fig. 466 Wood Wheel
250 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0173-5234



Application of Lunkenheimer Boilers conforming to Canadian Interprovincial Regulations

Canadian Interprovincial Regulations		Lunkenheimer Products		Canadian Interprovincial Regulations	
Para-graph	Regulations	Description	Figure Numbers Up to 175 Lbs. W.S.P. 175 to 250 Lbs. W.S.P.	Para-graph	Regulations
262	ALL FITTINGS carrying steam pressure shall be as follows: Up to 125-Lbs. Standard. 125 Lbs. to 175 Lbs. Medium or Heavy 175 Lbs. to 250 Lbs. Extra Heavy All valves immediately connected to the boilers 2" and larger; on steam mains carrying over 120 Lbs., 3" and larger; and on steam mains carrying over 30 Lbs., 4" and larger shall have flanged connections.			282	Every boiler shall have at least one safety valve not less than six inches in diameter. Where the top connection from the floor water gauge with rods or chains is operated from the floor, drain cocks or valves there must be of the same size as those for steam connections.
264	Each boiler shall be provided with a pop safety valve or valves of approved design, etc.	Bronze Pop Safety Valves	629 433	283	Every boiler shall have two safety valves exceeding 30 inches in diameter. Pipe between lower cock to be mounted as the bottom of the globe at least 2 inches apart.
267	The diameter of a safety valve used on a boiler shall be not less than one inch on boilers over 2 Horse Power.	I.B.B.M. Pop Safety Valves	630 434	284	Stop valves between column of a straightway type water gauge shall be at least half the diameter of the boiler, and located at a distance from the floor, the end in sight.
269	When a safety valve larger than 3 1/2" is required two or more valves shall be used. Such valves may be as large as 4 1/2".	"Twin" Pop Safety Valves	752 752	286	Each boiler shall have a test check valve also a stop check valve and the boiler valves are used on feed line under the disc.
276	Every boiler shall be equipped with at least one fusible plug of approved design. All fusible plugs must be renewed at least once a year.	Fusible Plugs	1326 1327		
280	All steam gauges shall be connected directly to the boiler. A cut off cock with lever handle and a syphon must be used.	Bronze Lever Handle Steam Gauge Cock	977 978 979		
281	A 1 1/2" pipe size connection must be provided for inspection test gauge.	Bronze Regrinding Globe Valve	407 409		

BRONZE POP SAFETY VALVES FOR STEAM

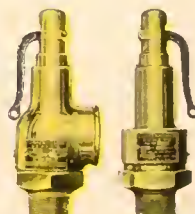
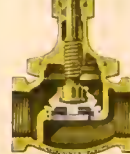


Fig. 629 Side Outlet
10 to 250 lbs.
500° F.
Fig. 433 Top Outlet
10 to 250 lbs.
500° F.

1 to 3 inches
Registration No. ϕ 0169-5234
Above Pop valves for steam service.
Fig. 1226 and 1227, Air Pop Valves, illustrated on pages 11 and 12.

FEED LINE VALVES



Bronze—"Swing Check"
500° F.
Fig. 554—200 Pounds
Fig. 624—300 Pounds
 $\frac{1}{2}$ to 3 inches
Registration No. ϕ 0147-5234—200 Pounds
Registration No. ϕ 0148-5234—300 Pounds

"Steel"—"Lift Check"
Monel Mounted 750° F
Fig. 1419 400 Pounds
 $\frac{1}{2}$ to 2 inches

"Steel"—"Swing Check"
Fig. 1314—Bronze Mt'd
300 Pounds—500° F.
Fig. 1397—Monel Mt'd
300 Pounds—750° F.
2 to 8 inches
Registration No. ϕ 0437-5234

TWIN POP SAFETY VALVES



Fig. 752—"Twin"
"Iron" with Bronze or Nickel Seat
10 to 250 Pounds—450° F.
Y-base inlet—3 to 6 inches
Registration No. ϕ 0170-5234

POP SAFETY VALVES



Fig. 630—"Iron" With Bronze or Nickel Seats. Encased Spring.
Combination Flange and Screw Inlet Base
Outlet size larger than Inlet
10 to 250 Pounds 450° F.
2 to 4 1/2 inches
Registration No. ϕ 0170-5234

Boiler Mountings Regulations

Regulations

At least one water gauge
each in length
If the boiler is above seven feet
gauges must be fitted
so that they may be
read from the ground.

For glass gauge fittings
the size and substantial
nature of the water connec-

tion and in boilers ex-
ceeding three feet in
diameter three gauge
read connection. The
gauge must be fitted
in the same plane as
the others and at
least vertically.

Each boiler must be
provided with a D.S. & Y.
bottom of column shall
be at a convenient distance
from the boiler.

Each feed pipe fitted with a
stop valve between the
boiler. When Globe
valves are used the inlet shall



Iron—"Duro"
With Bronze Seat and
Alloy Faced Disc or
Monel Seat and Disc
Fig. 896—Screw Ends
Fig. 897—Flange Ends
250 Pounds
1½ to 2½ inches
Registration No.
40168-5234

**Steel "Duro" Monel
Mounted**
Fig. 1413—Flange Ends
400 Pounds
2 and 2½ inches



BLOW-OFF VALVES DURO-GATE BLOW-OFF COMBINATION

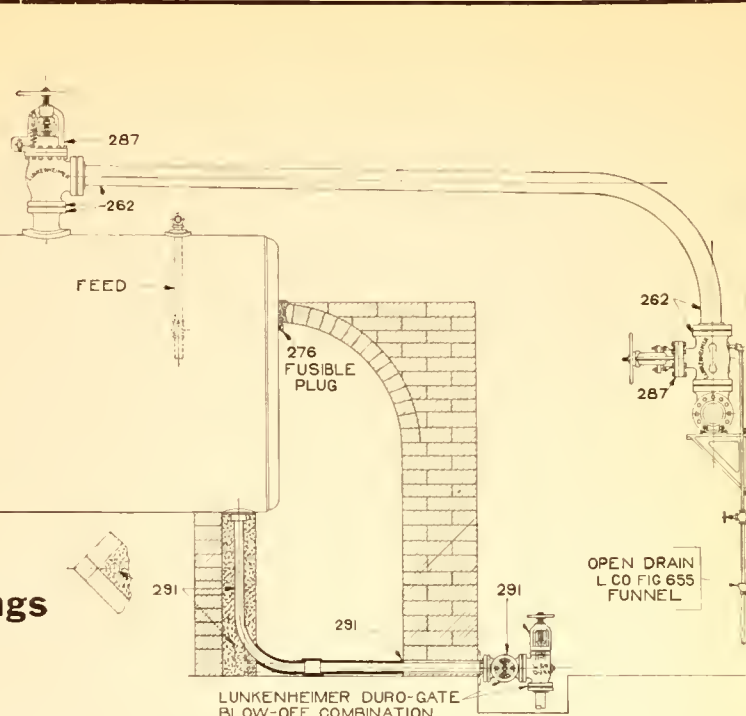
Figs. 897-1436—"Iron"
Flange Ends
250 Pounds
1½ to 3 inches
Figs. 1413-1425—"Steel"
Flange Ends
300 Pounds
2 and 2½ inches



Iron "Straightway"
With Bronze Seat and Alloy Faced Disc
Fig. 1352—Flange Ends, 250 lbs. 1" to 2½"
Registration No. 40440-5234
Fig. 1351—Screw Ends, 250 lbs. 1" to 2½"
Registration No. 40440-5234
Fig. 305—Flange Ends, 125 lbs. 1" to 2½"
Registration No. 40167-5234
Fig. 935—Screw Ends, 125 lbs. 1" to 2½"
Registration No. 40167-5234
Bronze "Straightway" Nickel Seat and Disc
Fig. 184—Flange Ends, 250 lbs. 1" to 2½"
Registration No. 40166-5234
Fig. 183—Screw Ends, 250 lbs. 1" to 2½"
Registration No. 40166-5234
Fig. 180—Screw Ends, 200 lbs. 1" to 2½"
Registration No. 40165-5234

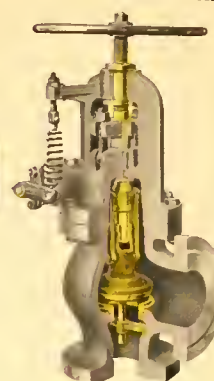


Fig. 655
Bronze Funnel
1½" to 2"



LUNKENHEIMER DURO-GATE
BLOW-OFF COMBINATION

SAFETY NON-RETURN BOILER STOP VALVES



"Iron"—Bronze
Mounted
Fig. 1408—Angle
Fig. 1407—Globe
250 Pounds
450° F
3 to 10 inches
Registration No.
40163-5234
Globe
Registration No.
40164-5234
—Angle

"Steel"—Monel
Mounted
Fig. 1410—Angle
Fig. 1409—Globe
Illustrated on
page 5.

LUNKENHEIMER NON-
RETURN VALVES HAVE NO
DASHPOTS AND WILL NOT
STICK, CHATTER OR SPIN.
WILL INSTANTLY CLOSE
AUTOMATICALLY WHEN
NECESSARY.

GATE VALVES

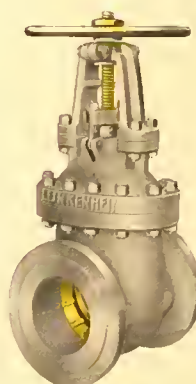


Fig. 643—"Heavy"
Iron Bronze Mounted
175 Pounds
450° F
2 to 16 inches
Registration No.
40156-5234

Fig. 1436—"Extra
Heavy" Iron Bronze
Mounted
250 Pounds
450° F
2 to 16 inches
Registration No.
40158-5234

Fig. 1425—"Steel"
Monel Mounted
300 Pounds
750° F
2 to 16 inches
Registration No.
40159-5234



**Bronze Gate Outside
Screw and Yoke**
Fig. 831
200 Pounds
¾ to 3 inches
Registration No.
40152-5234
Fig. 834
300 Pounds
1 to 3 inches
Registration No.
40154-5234

This type of valve
is prescribed when
used between water
column and boiler.
The rising stem
acts as an indic-

LUNKENHEIMER "ALL-IRON" VALVES

FOR HANDLING SOLUTIONS WHICH ATTACK BRONZE BUT NOT IRON
SMALL VALVES, SCREW ENDS



Fig. 1113—Globe
Fig. 1114—Angle
"All-Iron"
150 Pounds—450° F.
1/4 to 2 inches



Fig. 1116—Horizontal Check
"All-Iron"
150 Pounds—450° F.
1/4 to 2 inches



Fig. 322—Quick Operating
"All-Iron"
75 Pounds—450° F.
3/4 to 8 inches



Fig. 319—Gate "Clip"
"All-Iron"
100 Pounds—450° F.
1/2 to 3 inches



Gate, "Clip" Quick Operating
Fig. 321—Screw Ends
Fig. 320—Flange Ends
"All-Iron"
50 Pounds—450° F.
1/2 to 3 inches

LARGE "ALL-IRON" VALVES, SCREW ENDS



Fig. 218—Globe
Fig. 219—Angle
"All-Iron"
125 Pounds—450° F.
2 to 6 inches



Fig. 1104—Horizontal Check
"All-Iron"
125 Pounds—450° F.
2 to 6 inches



Fig. 1575—Gate
"All-Iron"
125 Pounds—450° F.
Non-Rising Steel Stem
2 to 6 inches



Fig. 1577—Gate
"All-Iron"
125 Pounds—450° F.
Rising Steel Stem
Outside Screw and Yoke
2 to 6 inches

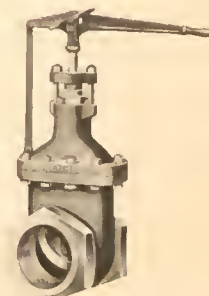


Fig. 1602—Gate
Quick Operating
"All-Iron"
2 to 3 inches—125 lbs.
3 1/2, 4, 5 and 6 inches—100 lbs.

LARGE "ALL-IRON" VALVES, FLANGE ENDS



Fig. 618—Globe
Fig. 619—Angle
"All-Iron"
125 Pounds—450° F.
2 to 12 inches



Fig. 1106—Horizontal Check
"All-Iron"
125 Pounds—450° F.
2 to 12 inches



Fig. 1576—Gate
"All-Iron"
125 Pounds—450° F.
Non-Rising Steel Stem
2 to 6 inches



Fig. 1578—Gate
"All-Iron"
125 Pounds—450° F.
Rising Steel Stem
Outside Screw and Yoke
2 to 8 inches

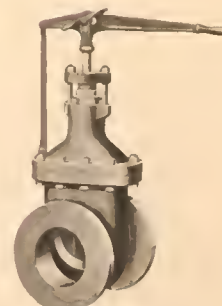


Fig. 1603—Gate
Quick Operating
"All-Iron"
2 to 3 inches—125 lbs.
3 1/2, 4, 5 and 6 inches—100 lbs.

STANDARD FACE TO FACE DIMENSIONS

LUNKENHEIMER AIR DEVICES



Fig. 96
Air Nozzle
With Push Button
Hose End
3/8 and 1/2 inch



Fig. 5
Air Nozzle
With Lever Hose End
3/8 and 1/2 inch



Fig. 1226—Top Outlet
Fig. 1227—Side Outlet
Pop Safety Valves for Air Service
10 to 250 Pounds

Sizes Made 3/8 to 3 inches
Sizes Registered 1 to 3 inches
Registration No. 40169-5234
Use Side Outlet Valves in Alberta. Top
Outlet not permitted.
Pop valves for steam are illustrated on
page 8.



Fig. 1571—Female Ends
"Air-Liquid" Cock
With Stop Lugs
1/2 to 1 inch

If male ends are desired insert extra
heavy nipples in Fig. 1571



Fig. 26
Air Nozzle
With Push Button
Female Pipe Threaded End
1/8-1/4-3/8 inch



Fig. 32—Air Nozzle
With Lever
Female Pipe Threaded End
1/8-1/4-3/8 inch



Fig. 1371
Hose Connection
1/8 x 1/4 1/4 x 1/2
1/4 x 3/8 3/8 x 3/8
3/8 x 1/2

LUNKENHEIMER QUICK OPERATING VALVES



Fig. 431
Bronze—"Lever" Gate
175 Pounds
1/2 to 2 1/2 inches



Fig. 430
Bronze—"Handy" Gate
75 Pounds
1/2 to 4 inches



Fig. 635
Bronze—"Regrinding" Lever
Operated Valve
With Stuffing Box
150 Pounds
1/4 to 2 inches

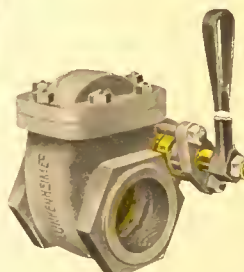


Fig. 432
"Lever" Gate
Iron, Bronze Mounted
175 pounds, 2 to 3 inches
125 " 3 1/2 and 4 "
100 " 5 " 6 "

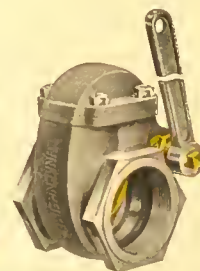


Fig. 628
"Handy" Gate
Iron, Bronze Mounted
75 pounds
2 to 8 inches



Fig. 639—Gate "Clip"
Iron, Bronze Mounted
50 Pounds
1/2 to 3 inches



Fig. 640—Gate "Clip"
Iron, Bronze Mounted
50 Pounds
1 to 3 inches

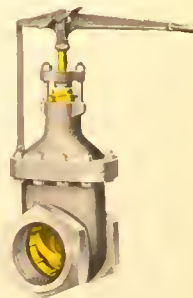


Fig. 1579—Gate
Iron, Bronze Mounted
2 and 3 inches 125 lbs.
3 1/2, 4, 5 " 6 " 100 "

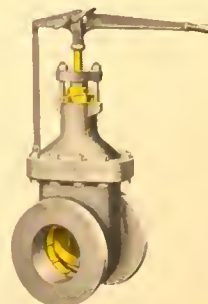


Fig. 1580—Gate
Iron, Bronze Mounted
2 and 3 inches 125 lbs.
3 1/2, 4, 5 " 6 " 100 "
8 " 75 "
10 and 12 " 50 "

STANDARD FACE TO FACE
DIMENSIONS

LUNKENHEIMER LIQUID LEVEL GAUGES

TANK, RESERVOIR AND OTHER SIMILAR SERVICE



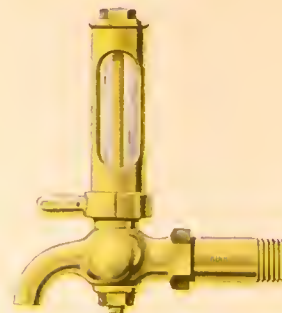
Fig. 1183—"All Iron"
"Automatic" Liquid Level Gauge
200 Pounds—450° F.
Regularly made in $\frac{3}{4}$ inch female
only, but can be bushed to
 $\frac{3}{8}$ or $\frac{1}{2}$ inch.
For male ends use steel nipples—
Fig. 1237



Fig. 589—"Bronze"
"Automatic" Liquid Level Gauge
200 Pounds—500° F.
 $\frac{1}{2}$ and $\frac{3}{4}$ inch



Fig. 528 Plain
Fig. 529—With Drain Cock
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



With Revolvable Shield

Fig. 966—"Triplex"
 $\frac{3}{8}$ to $\frac{1}{2}$ inch

(Water Gauges for Boiler Service are illustrated on page eight.)

LUNKENHEIMER RELIEF VALVES

FOR WATER OR OTHER LIQUID SERVICE



Fig. 791—Male Inlet
Fig. 288—Female Inlet
Bronze Side Outlet "Liquid" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 996—Male Inlet
Fig. 997—Female Inlet
Rough Bronze Side Outlet "Liquid"
Relief Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 1359—Screw Outlet
Fig. 1144—Flange Outlet
Combination Flange and Female Screw
Inlet
Iron Bronze Mounted "Liquid"
Relief Valve
10 to 250 Pounds—450° F.
2 to 6 inches



Fig. 157
Combination Flange and Female
Screw Inlet, Screw Outlet,
Outside Spring Relief Valve

FOR AIR SERVICE



Fig. 1227—Side Outlet
Fig. 1226—Top Outlet
Bronze Pop Safety Valves for Air
Service
10 to 250 Pounds. Sizes Made, $\frac{1}{4}$ to 3
inches. Sizes Registered, 1 to 3 inches.
Registration No. 40169-5234
Use Side Outlet Valves in Alberta. Top
Outlet not permitted.



Fig. 656—Male Inlet
Fig. 287—Female Inlet
Bronze Top Outlet "Steam" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 658—Male Inlet
Fig. 286—Female Inlet
Bronze Side Outlet "Steam" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 382—With Regulating Wheel
Fig. 202—Without Regulating Wheel
Rough Bronze "Steam" Relief Valve
10 to 175 Pounds
 $\frac{3}{8}$ to 2 inches

(Pop Valves for Steam are illustrated on page 8.)

BRONZE RELIEF VALVES FOR PRESSURES HIGHER THAN 250 POUNDS ARE PROCURABLE

LUNKENHEIMER COCKS

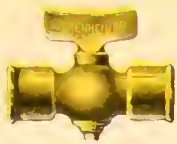


Fig. 474
Steam Gauge Cock
Tee Handle
125 Pounds $\frac{1}{8}$ to $\frac{3}{8}$ inch

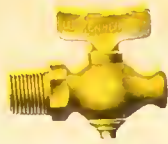


Fig. 476
Pet Cock
Tee Handle
125 Pounds $\frac{1}{8}$ to $\frac{1}{2}$ inch

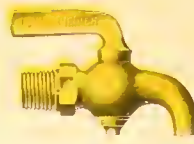


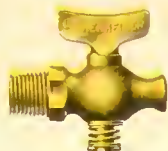
Fig. 479
Bibb Nose Cock
Lever Handle
125 Pounds $\frac{1}{8}$ to $\frac{1}{2}$ inch



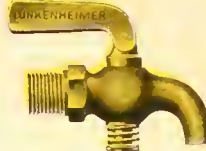
Fig. 454—Stop Cock
 $\frac{1}{8}$ to 2 inches—150 lbs.
 $2\frac{1}{2}$ to 3 inches—100 lbs.



Spring Key Cock
Fig. 1037—Lever Handle
Double Female Ends
50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Spring Key Pet Cock
Fig. 177—Tee Handle
Fig. 178—Lever Handle
Male End 50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Spring Key Bibb Nose Cock
Fig. 176—Lever Handle
Male End 50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 872—Stop Cock
 $\frac{1}{4}$ to 2 inches—250 lbs.



Fig. 805
Packed Plug
Cock
150 Pounds
 $\frac{1}{2}$ to 2 inches



Fig. 810
Extra Heavy
Packed Plug
Cock
250 Pounds
 $\frac{1}{2}$ to 2 inches



Fig. 817
Extra Heavy
Three-Way Packed Plug
Cock
 $\frac{1}{2}$ to $1\frac{1}{2}$ inches
250 lbs.
2 inches—200 lbs.



Fig. 278
Extra Heavy
Four-Way Packed Plug
Cock
 $\frac{1}{2}$ to $1\frac{1}{2}$ inches
250 lbs.
2 inches—200 lbs.



Fig. 573
Three-Way Stop Cock
150 Pounds
 $\frac{1}{4}$ to 2 inches



Fig. 155
Four-Way Stop Cock
150 Pounds
 $\frac{1}{4}$ to 1 inch

LUNKENHEIMER WHISTLES

"You Hear Them Everywhere"



Fig. 441
Plain Whistle
Valve
200 Pounds
Diameter of
Bells
1 to 6 inches



Fig. 442
Plain With-
out Valve
200 Pounds
Diameter of
Bells
1 to 8 inches



Fig. 448
Single Bell
Chime
Without
Valve
200 Pounds
Diameter of
Bells
 $1\frac{1}{2}$ to 8 in.



Fire Alarm With
Valve
Fig. 446
Iron Base
150 Pounds
Fig. 163
Bronze Base
200 Pounds
Diameter of Bells
 $3\frac{1}{2}$ —5—8 inches



Atlantic Liner Chime
Fig. 450
Iron Branch and Base
150 Pounds
No. 2—2 inch inlet
No. 3 and $3\frac{1}{2}$ —3 inch inlet
Fig. 193
Iron Branch, Bronze Base
200 Pounds
No. 1 —1 inch inlet
No. 2 —2 inch inlet
No. 3 —3 inch inlet
No. $3\frac{1}{2}$ —3 inch inlet



Fig. 444
Plain Whistle Valve
Without Stuffing Box
150 Pounds
 $\frac{1}{4}$ to 2 inches



Fig. 691
Balanced Whistle Valve
200 Pounds
Fig. 234
Extra Heavy Balanced
Whistle Valve
300 Pounds
1 to 3 inches

Fig. 1182
Bronze Branch and Base
300 Pounds
No. 3 —3 inch inlet
No. $3\frac{1}{2}$ —3 inch inlet

LUNKENHEIMER LUBRICATORS

HYDROSTATIC DOUBLE CONNECTION



Fig. 482
"Senior" Lubricator
1/2 and 1/2 pt.—1/2" Shank
3/4 pt., 1 pt., 1 1/2 pt., 1 qt. and 1/2 gal.
1/2" Shank

HYDROSTATIC DROP FEED TYPE



Fig. 487
"Major" Lubricator
No. 1—1/2" Shank—2 1/2 ounces
No. 2—1/2" Shank—3 3/4 ounces
No. 3—1/2" Shank—5 ounces
No. 4—1/2" Shank—6 ounces
No. 5—1/2" Shank—10 ounces
No. 6—1/2" Shank—18 ounces

HYDROSTATIC SINGLE CONNECTION



Fig. 486
"Junior" Lubricator
1/2 and 1/2 pt.—1/2" Shank
3/4 and 1 pt.—1/2" Shank

GAS ENGINE TYPE

GENERAL TYPE



Fig. 498
Plain Engine Lubricator
No. 0—1/2" Shank—1 ounce
No. 1—1/2" Shank—2 ounces
No. 2—1/2" Shank—2 3/4 ounces
No. 3—1/2" Shank—3 3/4 ounces
No. 4—1/2" Shank—5 ounces
No. 5—1/2" Shank—6 ounces
No. 6—1/2" Shank—10 ounces
No. 7—1/2" Shank—18 ounces
No. 8—1/2" Shank—28 ounces



Fig. 1301
"Paragon" Lubricator
No. 1—1/2" Shank—1 1/2 ounces
No. 2—1/2" Shank—2 1/2 ounces
No. 3—1/2" Shank—4 ounces
No. 4—1/2" Shank—5 ounces
No. 5—1/2" Shank—10 ounces
No. 6—1/2" Shank—18 ounces
No. 8—1/2" Shank—32 ounces

AIR COMPRESSOR TYPES

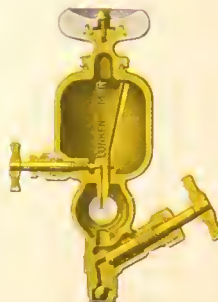


Fig. 1028
"Emblem" Lubricator
No. 1—1/2" Shank—3 ounces
No. 2—1/2" Shank—4 ounces
No. 3—1/2" Shank—5 ounces
No. 4—1/2" Shank—6 ounces
No. 5—1/2" Shank—10 ounces
No. 6—1/2" Shank—18 ounces



Fig. 489
"Banner" Lubricator
No. 0—1/2" Shank—2 ounces
No. 1—1/2" Shank—2 3/4 ounces
No. 2—1/2" Shank—3 3/4 ounces
No. 3—1/2" Shank—5 ounces
No. 4—1/2" Shank—6 ounces
No. 5—1/2" Shank—10 ounces
No. 6—1/2" Shank—18 ounces

LUNKENHEIMER OIL PUMPS

MECHANICALLY OPERATED



Fig. 1014
"Invincible"
Oil Pump
1, 2, 3, or 4 Feeds
1 qt., 1/2 gal., or gal.
capacities



Fig. 912—Single Feed
1 pt. to 1 1/2 gal.
Fig. 949—Double Feed
1 qt. to 1/2 gal.
"Marvel" Oil Pump
Bolt thr'd 1/2"—pipe thr'd 1/2"—1 pt.
Bolt thr'd 3/8"—pipe thr'd 1/2"—1 qt.
Bolt thr'd 3/4"—pipe thr'd 1/2"—1/2 gal.

HAND OPERATED

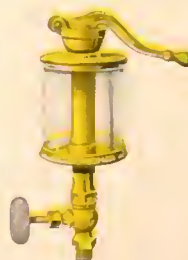


Fig. 495
"Alpha" Oil Pump
No. 3—1/2"—1/4 pt.
No. 5—1/2"—1/2 pt.
No. 6—1/2"—1 pt.
No. 8—1/2"—1 qt.



Fig. 853
"Universal" Oil Pump
No. 3A—1/2"—1/4 pint
No. 5A—1/2"—1/2 pint
No. 6A—1/2"—1 pint
No. 8A—1/2"—1 quart

LUNKENHEIMER OIL CUPS



SIGHT-FEED TYPE

Fig. 1300
"Sentinel"
Sight-Feed
Nos. 0 to 8



Fig. 1299
'Cardinal'
Nos. 0 to 8

Size Number	Shank Pipe Thread Inches	Capacity Oil Ounces
000	3/8	3/4
0	1/2	1
1	3/4	1 1/2
2	1	2 1/2
3	1 1/4	4
4	1 1/2	5
5	1 3/4	10
6	2	18
8	2 1/2	34



Fig. 1298
"Royal"
Sight-Feed
Nos. 000 to 8



Fig. 1297
"Pioneer"
Nos. 000 to 8

WITHOUT
SIGHT-FEED
TYPE

PLAIN SCREW LID



Fig. 540—Plain
Straight Shank
Nos. 00 to 9

Fig. 915—Plain
Elbow Shank
Nos. 00 to 4

Size Number	Shank Pipe Thread Inches	Capacity Oil Ounces
00	3/8	3/4
0	1/2	1
1	3/4	1 1/2
2	1	2 1/2
3	1 1/4	4
4	1 1/2	5
5	1 3/4	10
6	2	18
7	2 1/4	34
8	2 1/2	4 1/2
9	2 3/4	6 1/2

PLAIN HINGE LID



Fig. 538—Hinge Lid
Straight Shank
Nos. 1 to 7

Fig. 971—Hinge Lid
Elbow Shank
Nos. 1 to 4

BOTTLE OILERS



Fig. 534—Taper
Wood Plug and
Loose Wire Feed
Fig. 533—Threaded
Shank

Nos. 1 to 3
Shank of Fig. 533
threaded 3/8" on
end, 16 threads to
the inch slightly
tapered to screw
tightly into 3/8"
bolt hole.



Fig. 1230—Flat
Side, Taper Wood
Plug and Loose
Wire Feed
No. 3 only



Fig. 1584—Straight
Blank Shank and
Loose Wire Feed
No. 3 only



Fig. 1585—Flat
Side, Straight Blank
Shank and Loose
Wire Feed
No. 3 only

Capacities { No. 1—1 ounce
No. 2—2 ounces
No. 3—4 ounces

LUNKENHEIMER GREASE CUPS

STEEL COMPRESSION TYPE



Fig. 1089
Steel—"Ferro"
Plain
Nos. 000 to 4



Fig. 1090
Steel—"Securo"
With Internal Lock-
ing Spring
Nos. 000 to 2



Fig. 511
Brass—"Jewel"
Nos. 00 to 4



Fig. 510
Bronze—"Ideal"
Nos. 00 to 5



Fig. 824
Bronze—"Lion"
Nos. 00 to 5

BRONZE COMPRESSION TYPE

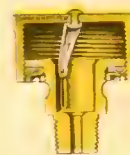


Fig. 513
Bronze—"Tiger"
Finished or Rough
With Internal Locking
Spring and Leather
Washer
Nos. 000 to 4

SCREW-FEED PLUNGER TYPE



Fig. 23
Steel—"Primo"
With Ratchet Locking
Device
Nos. 000 to 2



Fig. 512
Bronze—"Marine"
Nos. 00 to 5



Fig. 1030
Bronze—"Atlas"
Nos. 00 to 5



Fig. 669
Iron—"Apollo"
Automatic Type
Nos. 00 to 4



Fig. 556
Bronze—"Gem"
Plain
Finished or Rough
Nos. 000 to 4

Size Number.....	000	00	0	1	2	3	4	5
Shank Pipe Thread, inch..	1/8	1/8	1/4	1/4	3/8	1/2	1/2	3/4

